856 Ship Notice/Manifest

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Functional Group ID=SH

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Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
Not Used	030	NTE	Note/Special Instruction	F	100		
	040	DTM	Date/Time Reference	O	10		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level	M	1		c1
Not Used	020	LIN	Item Identification	O	1		
Not Used	030	SN1	Item Detail (Shipment)	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
	050	PRF	Purchase Order Reference	O	1		
Not Used	060	PO4	Item Physical Details	O	1		
Not Used	070	PID	Product/Item Description	O	200		
Not Used	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
Not Used	110	TD1	Carrier Details (Quantity and Weight)	O	20		
	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	130	TD3	Carrier Details (Equipment)	O	12		
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	150	REF	Reference Numbers	O	>1		
Not Used	151	PER	Administrative Communications Contact	O	3		
			LOOP ID - LH1			100	
Not Used	152	LH1	Hazardous Identification Information	O	1		
Not Used	153	LH2	Hazardous Classification Information	O	4		
Not Used	154	LH3	Hazardous Material Shipping Name	O	12		
Not Used	155	LFH	Freeform Hazardous Material Information	O	20		

				Req.	Max.
Not Used	156	LEP	EPA Required Data	O	3
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
			LOOP ID - CLD		200
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Numbers	O	200
Not Used	185	DTP	Date or Time or Period	O	1
Not Used	190	MAN	Marks and Numbers	O	>1
Not Used	200	DTM	Date/Time Reference	O	10
Not Used	210	FOB	F.O.B. Related Instructions	O	1
Not Used	215	PAL	Pallet Information	O	1
			LOOP ID - N1		200
Not Used	220	N1	Name	O	1
Not Used	230	N2	Additional Name Information	O	2
Not Used	240	N3	Address Information	O	2
Not Used	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Numbers	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	10
Not Used	330	GF	Furnished Goods and Services	O	1
			LOOP ID - LM		10
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	010	CTT	Transaction Totals	O	1		n1
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1.   Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1.   The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

				Segment:	**ST** **Transaction Set Header**	

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	ST01	143	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
M	ST02	329	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

				Segment:	**BSN** Beginning Segment for Ship Notice

Segment: **BSN** Beginning Segment for Ship Notice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
         2 BSN04 is the time the shipment transaction set is created.
         3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	BSN01	353	**Transaction Set Purpose Code**	M	ID 2/2
			Code identifying purpose of transaction set		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
M	BSN02	396	**Shipment Identification**	M	AN 2/30
			A unique control number assigned by the original shipper to identify a specific shipment		
M	BSN03	373	**Date**	M	DT 6/6
			Date (YYMMDD)		
M	BSN04	337	**Time**	M	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
X	BSN05	1005	**Hierarchical Structure Code**	O	ID 4/4
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set
Refer to 003050 Data Element Dictionary for acceptable code values.		
X	BSN06	640	**Transaction Type Code**	X	ID 2/2
			Code specifying the type of transaction		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
X	BSN07	641	**Status Reason Code**	O	ID 3/3
			Code indicating the status reason		
			Refer to 003050 Data Element Dictionary for acceptable code values.		

	Segment:	**DTM** Date/Time Reference
	Position:	040
	Loop:	
	Level:	Heading
	Usage:	Optional
	Max Use:	10
	Purpose:	To specify pertinent dates and times
	Syntax Notes:	**1** At least one of DTM02 DTM03 or DTM06 is required.
		2 If either DTM06 or DTM07 is present, then the other is required.
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	374	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
	DTM02	373	**Date**	**X**	**DT 6/6**
			Date (YYMMDD)		
X	**DTM03**	337	**Time**	**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
X	**DTM04**	623	**Time Code**	**O**	**ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 003050 Data Element Dictionary for acceptable code values.		
X	**DTM05**	624	**Century**	**O**	**N0 2/2**
			The first two characters in the designation of the year (CCYY)		
X	**DTM06**	1250	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
			Code indicating the date format, time format, or date and time format		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
X	**DTM07**	1251	**Date Time Period**	**X**	**AN 1/35**
			Expression of a date, a time, or range of dates, times or dates and times		

Segment:	**HL** Hierarchical Level			
Position:	010			
Loop:	HL	Mandatory		
Level:	Detail			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments			
Syntax Notes:				
Semantic Notes:				
Comments:	1	The HL segment defines a top-down/left-right ordered structure.		
	2	HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.		
	3	HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.		
	4	HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.		
	5	HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	HL01	628	**Hierarchical ID Number**	M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
X	HL02	734	**Hierarchical Parent ID Number**	O AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735	**Hierarchical Level Code**	M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	
			Refer to 003050 Data Element Dictionary for acceptable code values.	
X	HL04	736	**Hierarchical Child Code**	O ID 1/1
			Code indicating whether if there are hierarchical child data segments subordinate to the level being described.	
			Refer to 003050 Data Element Dictionary for acceptable code values.	

			Segment:	**PRF** Purchase Order Reference

Segment: **PRF** Purchase Order Reference
Position: 050
Loop: HL   Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: 1   PRF04 is the date assigned by the purchaser to purchase order.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	PRF01	324	**Purchase Order Number**	**M**	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser		
	PRF02	328	**Release Number**	**O**	**AN 1/30**
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
X	PRF03	327	**Change Order Sequence Number**	**O**	**AN 1/8**
			Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set		
X	PRF04	373	**Date**	**O**	**DT 6/6**
			Date (YYMMDD)		
X	PRF05	350	**Assigned Identification**	**O**	**AN 1/11**
			Alphanumeric characters assigned for differentiation within a transaction set		
	PRF06	367	**Contract Number**	**O**	**AN 1/30**
			Contract number		
X	PRF07	92	**Purchase Order Type Code**	**O**	**ID 2/2**
			Code specifying the type of Purchase Order		
			Refer to 003050 Data Element Dictionary for acceptable code values.		

	Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)

Position:	120
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
	2 If TD502 is present, then TD503 is required.
	3 If TD507 is present, then TD508 is required.
	4 If TD510 is present, then TD511 is required.
Semantic Notes:	
Comments:	1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	TD501	133	**Routing Sequence Code**	O	ID 1/2
			Code describing the relationship of a carrier to a specific shipment movement		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
X	TD502	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
X	TD503	67	**Identification Code**	X	AN 2/20
			Code identifying a party or other code		
X	TD504	91	**Transportation Method/Type Code**	X	ID 1/2
			Code specifying the method or type of transportation for the shipment		

7	Mail	
	Type of transportation provided by the U.S. Postal Service	
AE	Air Express	
AF	Air Freight	
D	Parcel Post	
FA	Air Frieght Forwarder	
	A firm other than a railroad, motor, or water carrier, which represents itself as a common carrier and undertakes to assemble and consolidate shipments or provide for same and assumes responsibility for the air transportation of such property from point of receipt to its destination. Delivery is "Held in Bond"	
MP	Motor (Package Carrier)	
RR	Roadrailer	
	Used for shipments that travel by roadrailer, i.e., a multimodal rail/highway trailer	
U	Private Parcel Service	
ZZ	Mutually defined	

	Ref. Des.	Data Element	Name	Attributes	
X	TD505	387	**Routing**	X	AN 1/35
			Free-form description of the routing or requested routing for shipment, or the originating carrier's identity		
X	TD506	368	**Shipment/Order Status Code**	X	ID 2/2
			Code indicating the status of an order or shipment or the disposition of any		

difference between the quantity ordered and the quantity shipped for a line item or transaction

Refer to 003050 Data Element Dictionary for acceptable code values.

X	TD507	309	**Location Qualifier**	O	ID 1/2

Code identifying type of location

Refer to 003050 Data Element Dictionary for acceptable code values.

X	TD508	310	**Location Identifier**	X	AN 1/30

Code which identifies a specific location

X	TD509	731	**Transit Direction Code**	O	ID 2/2

The point of origin and point of direction

Refer to 003050 Data Element Dictionary for acceptable code values.

X	TD510	732	**Transit Time Direction Qualifier**	O	ID 2/2

Code specifying the value of time used to measure the transit time

Refer to 003050 Data Element Dictionary for acceptable code values.

X	TD511	733	**Transit Time**	X	R 1/4

The numeric amount of transit time

X	TD512	284	**Service Level Code**	X	ID 2/2

Code defining service

Refer to 003050 Data Element Dictionary for acceptable code values.

			Segment:	**CTT** Transaction Totals

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	CTT01	354	**Number of Line Items**	M	N0 1/6
			Total number of line items in the transaction set		
X	CTT02	347	**Hash Total**	O	R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.		
			Example:		
			-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.		
X	CTT03	81	**Weight**	X	R 1/10
			Numeric value of weight		
X	CTT04	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
X	CTT05	183	**Volume**	X	R 1/8
			Value of volumetric measure		
X	CTT06	355	**Unit or Basis for Measurement Code**	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 003050 Data Element Dictionary for acceptable code values.		
X	CTT07	352	**Description**	O	AN 1/80
			A free-form description to clarify the related data elements and their content		

Segment:	**SE** Transaction Set Trailer			
Position:	020			
Loop:				
Level:	Summary			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).			
Syntax Notes:				
Semantic Notes:				
Comments:	1	SE is the last segment of each transaction set.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M	SE02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		